



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CAI *et al.*

Appl. No.: 10/572,910

§ 371 Date: March 21, 2006

For: **Substituted 2-Arylmethylene-N-aryl-N'-aryl-malonamides and Analogs as Activators of Caspases and Inducers of Apoptosis**

Confirmation No.: 4626

Art Unit: 1614

Examiner: Weddington, Kevin E.

Atty. Docket: 1735.0930001/RWE/BSA

Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of documents FP1 and NPL1-NPL38 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached IDS Forms are submitted.

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This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

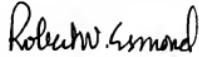
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Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Robert W. Esmond
Attorney for Applicants
Registration No. 32,893

Date: July 26, 2007

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

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Application Number	10/572,910
§ 371 Date	March 21, 2006
First Named Inventor	Sui Xiong CAI
Art Unit	1614
Examiner Name	Weddington, Kevin E.
Attorney Docket Number	1735.0930001/RWE/BSA

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/ZV/	US1	4,634,777	01-06-1987	Satoh <i>et al.</i>	
/ZV/	US2	6,335,429 B1	01-01-2002	Cai <i>et al.</i>	
	US3				
	US4				
	US5				
	US6				
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
/ZV/	FP1	WO 96/20721	07-11-1996	The General Hospital Corporation		
	FP2					
	FP3					
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	FP8					
	FP9					

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				<i>Attorney Docket Number</i>	1735.0930001/RWE/BSA
Sheet	1	of	4		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
/ZV/	NPL1	Adjei, A.A. et al., "Synergy of the Protein Farnesyltransferase Inhibitor SCH66336 and Cisplatin in Human Cancer Cell Lines," <i>Clin. Cancer Res.</i> 7:1438-1445, American Association for Cancer Research, Inc. (2001)			
/ZV/	NPL2	Almond, J.B. and Cohen, G.M., "The proteasome: a novel target for cancer chemotherapy," <i>Leukemia</i> 16:433-443, Nature Publishing Group (April 2002)			
/ZV/	NPL3	Batteux, F. et al., "Gene Therapy of Experimental Autoimmune Thyroiditis by In Vivo Administration of Plasmid DNA Coding for Fas Ligand," <i>J. Immunol.</i> 162:603-608, The American Association of Immunologists (1999)			
/ZV/	NPL4	Blanck, C.D., "Celecoxib With Chemotherapy in Colorectal Cancer," <i>Oncology (Huntingt)</i> 16(No. 4 Suppl. 3):17-21, Karger (April 2002)			
/ZV/	NPL5	Boirivant, M. et al., "Lamina Propria T Cells in Crohn's Disease and Other Gastrointestinal Inflammation Show Defective CD2 Pathway-Induced Apoptosis," <i>Gastroenterology</i> 116:557-565, W.B. Saunders (1999)			
/ZV/	NPL6	Chinnaiyan, A.M. et al., "The inhibition of pro-apoptotic ICE-like proteases enhances HIV replication," <i>Nat. Med.</i> 3:333-337, Nature Publishing Company (1997)			
/ZV/	NPL7	Coven, T.R. et al., "PUVA-induced lymphocyte apoptosis: Mechanism of action in psoriasis," <i>Photodermat. Photoimmunol. Photomed.</i> 15:22-27, Blackwell Munksgaard (1999)			
/ZV/	NPL8	Crawford, K.W. and Bowen, W.D., "Sigma-2 Receptor Agonists Activate a Novel Apoptotic Pathway and Potentiate Antineoplastic Drugs in Breast Tumor Cell Lines," <i>Can. Res.</i> 62:313-322, American Association for Cancer Research, Inc. (January 2002)			
/ZV/	NPL9	Ellis, R.E. et al., "Mechanisms and Functions of Cell Death," <i>Ann. Rev. Cell Biol.</i> 7:663-698, Annual Reviews, Inc. (1991)			
/ZV/	NPL10	Friesen, C. et al., "Involvement of the CD95 (APO-1/Fas) receptor/ligand system in drug-induced apoptosis in leukemia cells," <i>Nat. Med.</i> 2:574-577, Nature Publishing Co. (1996)			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/572,910
				§ 371 Date	March 21, 2006
				First Named Inventor	Sui Xiong CAI
				Art Unit	1614
				Examiner Name	Weddington, Kevin E.
				Attorney Docket Number	1735.0930001/RWE/BSA
Sheet	2	of	4		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published			T ²
/ZV/	NPL11	Giermasz, A. et al., "Potentiating Antitumor Effects of a Combination Therapy with Lovastatin and Butyrate in the Lewis Lung Carcinoma Model in Mice," <i>Int. J. Cancer</i> 97:746-750, Wiley-Liss, Inc. (February 2002)			
/ZV/	NPL12	Heenens, M. et al., "Methotrexate induces apoptotic cell death in human keratinocytes," <i>Arch. Dermatol. Res.</i> 290:240-245, Springer-Verlag (1998)			
/ZV/	NPL13	Infante, A.J. et al., "The clinical spectrum in a large kindred with autoimmune lymphoproliferative syndrome caused by a Fas mutation that impairs lymphocyte apoptosis," <i>J. Pediatr.</i> 133:629-633, Mosby, Inc. (1998)			
/ZV/	NPL14	Kalemkerian, G.P. and Ou, X., "Activity of fenretinide plus chemotherapeutic agents in small-cell lung cancer cell lines," <i>Cancer Chemother. Pharmacol.</i> 43:145-150, Springer-Verlag (1999)			
/ZV/	NPL15	Kelland, L.R. et al., "Preclinical Antitumor Activity and Pharmacodynamic Studies with the Farnesyl Protein Transferase Inhibitor R115777 in Human Breast Cancer," <i>Clin. Cancer Res.</i> 7:3544-3550, American Association for Cancer Research, Inc. (2001)			
/ZV/	NPL16	Kyprianou, N. and Benning, C.M., "Suppression of Human Prostate Cancer Cell Growth By α 1-Adrenoceptor Antagonists Doxazosin and Terazosin via Induction of Apoptosis," <i>Cancer Res.</i> 60:4550-4555, American Association for Cancer Research, Inc. (2000)			
/ZV/	NPL17	Liu, W.M. et al., "The <i>in vitro</i> activity of the tyrosine kinase inhibitor ST1571 in BCR-ABL positive chronic myeloid leukaemia cells: synergistic interactions with anti-leukaemic agents," <i>Br. J. Cancer</i> 86:1472-1478, Nature Publishing Group (May 2002)			
/ZV/	NPL18	López-Hoyos, M. et al., "Regulation of B cell apoptosis by Bcl-2 and Bcl-X _L and its role in the development of autoimmune diseases (Review)," <i>Int. J. Mol. Med.</i> 1:475-483, D. A. Spandidos (1998)			
/ZV/	NPL19	Los, M. et al., "Cross-Resistance of CD95- and Drug-Induced Apoptosis as a Consequence of Deficient Activation of Caspases (ICE/Ced-3 Proteases)," <i>Blood</i> 90:3118-3129, The American Society of Hematology (1997)			
/ZV/	NPL20	Motwani, M. et al., "Augmentation of Apoptosis and Tumor Regression by Flavopiridol in the Presence of CPT-11 in Hct116 Colon Cancer Monolayers and Xenografts," <i>Clin. Cancer Res.</i> 7:4209-4219, American Association for Cancer Research, Inc. (2001)			

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/ZV/	NPL21	Ohsako, S. and Elkow, K.B., "Apoptosis in the effector phase of autoimmune diabetes, multiple sclerosis and thyroiditis," <i>Cell Death Differ.</i> 6:13-21, Nature Publishing Group (1999)	
/ZV/	NPL22	O'Reilly, L.A. & Strasser, A., "Review: Apoptosis and autoimmune disease," <i>Inflamm. Res.</i> 48:5-21, Birkhäuser Verlag, Basel (1999)	
/ZV/	NPL23	Orrenius, S., "Apoptosis: molecular mechanisms and implications for human disease," <i>J. Internal Med.</i> 237:529-536, Blackwell Science Ltd. (1995)	
/ZV/	NPL24	Ozawa, M. et al., "312-nanometer Ultraviolet B Light (Narrow-Band UVB) Induces Apoptosis of T Cells within Psoriatic Lesions," <i>J. Exp. Med.</i> 189:711-718, The Rockefeller University Press (1999)	
/ZV/	NPL25	Regar, E. et al., "Stent development and local drug delivery," <i>Br. Med. Bull.</i> 59:227-248, Oxford University Press (2001)	
/ZV/	NPL26	Savill, J., "Apoptosis in resolution of inflammation," <i>J. Leukoc. Biol.</i> 61:375-380, Wiley-Liss (1997)	
/ZV/	NPL27	Schmitt, E. et al., "The Bcl-xL and Bax- α control points: modulation of apoptosis induced by cancer chemotherapy and relation to TPCK-sensitive protease and caspase activation," <i>Biochem. Cell Biol.</i> 75:301-314, National Research Council of Canada (1997)	
/ZV/	NPL28	Sgadari, C. et al., "HIV protease inhibitors are potent anti-angiogenic molecules and promote regression of Kaposi sarcoma," <i>Nat. Med.</i> 8:225-232, Nature America Inc. (March 2002)	
/ZV/	NPL29	Tai, D.-I. et al., "Activation of Nuclear Factor κ B in Hepatitis C Virus Infection: Implications for Pathogenesis and Hepatocarcinogenesis," <i>Hepatology</i> 31:656-664, W.B. Saunders Company (2000)	
/ZV/	NPL30	Thornberry, N.A., "Caspases: key mediators of apoptosis," <i>Chem. Biol.</i> 5:R97-R103, Current Biology Ltd. (1998)	

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/ZV/	NPL31	Thornberry, N.A., "The caspase family of cysteine proteases," <i>Brit. Med. Bull.</i> 53:478-490, Oxford University Press (1997)	
/ZV/	NPL32	Vaishnav, A.K. et al., "The molecular basis for apoptotic defects in patients with CD95 (Fas/Apo-1) mutations," <i>J. Clin. Invest.</i> 103:355-363, The American Society for Clinical Investigation Inc. (1999)	
/ZV/	NPL33	Vilner, B.J. et al., "Sigma-1 and Sigma-2 Receptors Are Expressed in a Wide Variety of Human and Rodent Tumor Cell Lines," <i>Cancer Res.</i> 55:408-413, American Association for Cancer Research, Inc. (1995)	
/ZV/	NPL34	Wakisaka, S. et al., "Modulation by proinflammatory cytokines of Fas/Fas ligand-mediated apoptotic cell death of synovial cells in patients with rheumatoid arthritis (RA)," <i>Clin. Exp. Immunol.</i> 114:119-128, Blackwell Science Ltd. (1998)	
/ZV/	NPL35	Wyllie, A.H., "Cell death: a new classification separating apoptosis from necrosis," in <i>Cell death in biology and pathology</i> , Bowen, I.D. and Lockshin, R.A., eds., Chapman and Hall, London, pp. 9-34 (1981)	
/ZV/	NPL36	Wyllie, A.H. et al., "Cell Death: The Significance of Apoptosis," <i>Int. Rev. Cyt.</i> 68:251-306, Academic Press, Inc. (1980)	
/ZV/	NPL37	Zhou, T. et al., "Bisindolylmaleimide VIII facilitates Fas-mediated apoptosis and inhibits cell-mediated autoimmune diseases," <i>Nat. Med.</i> 5:42-48, Nature America Inc. (1999)	
/ZV/	NPL38	Zou, C. et al., "Combined effect of chemopreventive agent N-(4-hydroxyphenyl) retinamide (4-HPR) and γ -radiation on bladder cancer cell lines," <i>Int. J. Oncol.</i> 13:1037-1041, D. A. Spandidos (1998)	
	NPL39		
	NPL40		

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